



Fruit Flies In-silico  
Prevention & Management

**FF•IPM**

In-silico boosted pest prevention  
off-season focused IPM

against new + emerging fruit flies

**TRAINING MATERIAL**



Horizon 2020  
European Union Funding  
for Research & Innovation





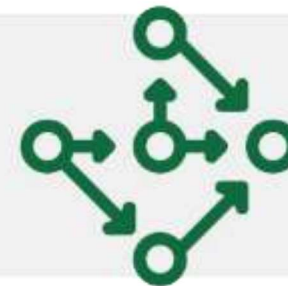
**FF•IPM** Fruit Flies In-silico  
Prevention & Management  
TRAINING MATERIAL



Horizon 2020  
European Union Funding  
for Research & Innovation

ENTITY

# Management Strategies





**FF•IPM** Fruit Flies In-silico  
Prevention & Management  
TRAINING MATERIAL

MANAGEMENT STRATEGIES

# Entomopathogenic fungi

---



Horizon 2020  
European Union Funding  
for Research & Innovation

AUTHOR(S)

**Laurent Costet**  
**Hélène Delatte**

PARTNER(S)

**CIRAD**  
**UNIMOL**

**MODULE 17**



## Key Aspects

ENTOMOPATHOGENIC FUNGI

---

### **Unit 1 Context / KEY ASPECT 1**

Discussion Question # 1

Discussion Question # 2

Discussion Question # 3

### **Entomopathogenic fungi (EPF as biological control agents**

- What are entomopathogenic fungi (EPF)?

- Which entomopathogenic fungi (EPF) are used as commercial bio-myco-insecticides?

- How are commercial bio-myco-insecticides used?

### **Unit 2 Strategy / KEY ASPECT 2**

Discussion Question # 4

Discussion Question # 5

### **A strategy to target fruit fly using EPF**

-How to target fruit fly with entomopathogenic fungi EPF?

-Which *Beauveria* based commercial product to target fruit fly?

### **Unit 3 FF-IPM tools / KEY ASPECT 3 Entomopathogenic fungi soil treatment for OFF- and ON- season management of *Ceratitis capitata* (Medfly)**

Discussion Question #5

-How does it work?



## Learning outcomes

ENTOMOPATHOGENIC FUNGI

---

This module introduces the general concept of biological control based on commercial entomopathogenic fungi, describes what was currently in place and introduces the developed strategy within the framework of the FF-IPM project